

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES UPGRADING THE EXISTING PEDESTRIAN CROSSINGS AT THE INTERSECTION OF MD 450 AND MD 197 IN PRINCE GEORGE'S COUNTY TO CURRENT APS/CPS STANDARDS. THE EXISTING HANDICAP RAMPS WILL BE UPGRADED TO CURRENT STANDARDS MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 450. THE MD 450 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH CONCURRENT PEDESTRIAN MOVEMENTS TO CROSS BOTH LEGS OF MD 197. THERE IS EXCLUSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 197. THE MD 197 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH ALTERNATE PEDESTRIAN PHASING TO CROSS BOTH LEGS OF MD 450. THIS INTERSECTION IS INTERCONNECTED ALONG MD 450 WITH THE INTERSECTIONS OF MD 450 AT GRENVILLE LN. TO THE WEST AND MD 450 AT ENT. TO ST. PIUS CHURCH TO THE EAST.

III. SPECIAL NOTE:

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

EQUIPMENT LIST FOR CONTRACT NO. XX4275185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9570	24	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	1	EA	W11-2 (36" X 36") GROUND MOUNTED
	1	EA	W16-7p(L) (24" X 12") GROUND MOUNTED
	1	EA	R 4-7 (24" X 30") GROUND MOUNTED
	8	EA	R 10-3 (1) (9" X 15") GROUND MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	1	CY	TEST PIT EXCAVATION
5005	10	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	435	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1635	SF	5 INCH CONCRETE SIDEWALK
8002	1	EA	2 WIRE CENTRAL CONTROL UNIT
8007	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	8	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8010	8	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8013	165	LF	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8018	165	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8019	106	SF	DETECTABLE WARNING SURFACES
8020	190	SF	REMOVE & RESET DECORATIVE BRICK
8023	1715	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8025	1795	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8031	30	LF	NEG - APPROVED - FURNISH & INSTALL WOOD SIGN POSTS UP TO 4' X 6'
8033	165	LF	NEG - APPROVED - FURNISH & INSTALL #6 BARE COPPER GROUND WIRE
8034	24	SF	NEG - APPROVED - INSTALL OVERHEAD OR GROUND MOUNTED SIGN

CONTACTS

The contact persons for this project are as follows:

Ms. Anyesha Mookherjee  
Assistant District Engineer - Traffic  
Phone: (301) 513-7318

Mr. Vernon Stinnett  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

Mr. Victor Grafton  
Utility Engineer  
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Supervisor, Signal Operations  
Phone: 410-787-7650

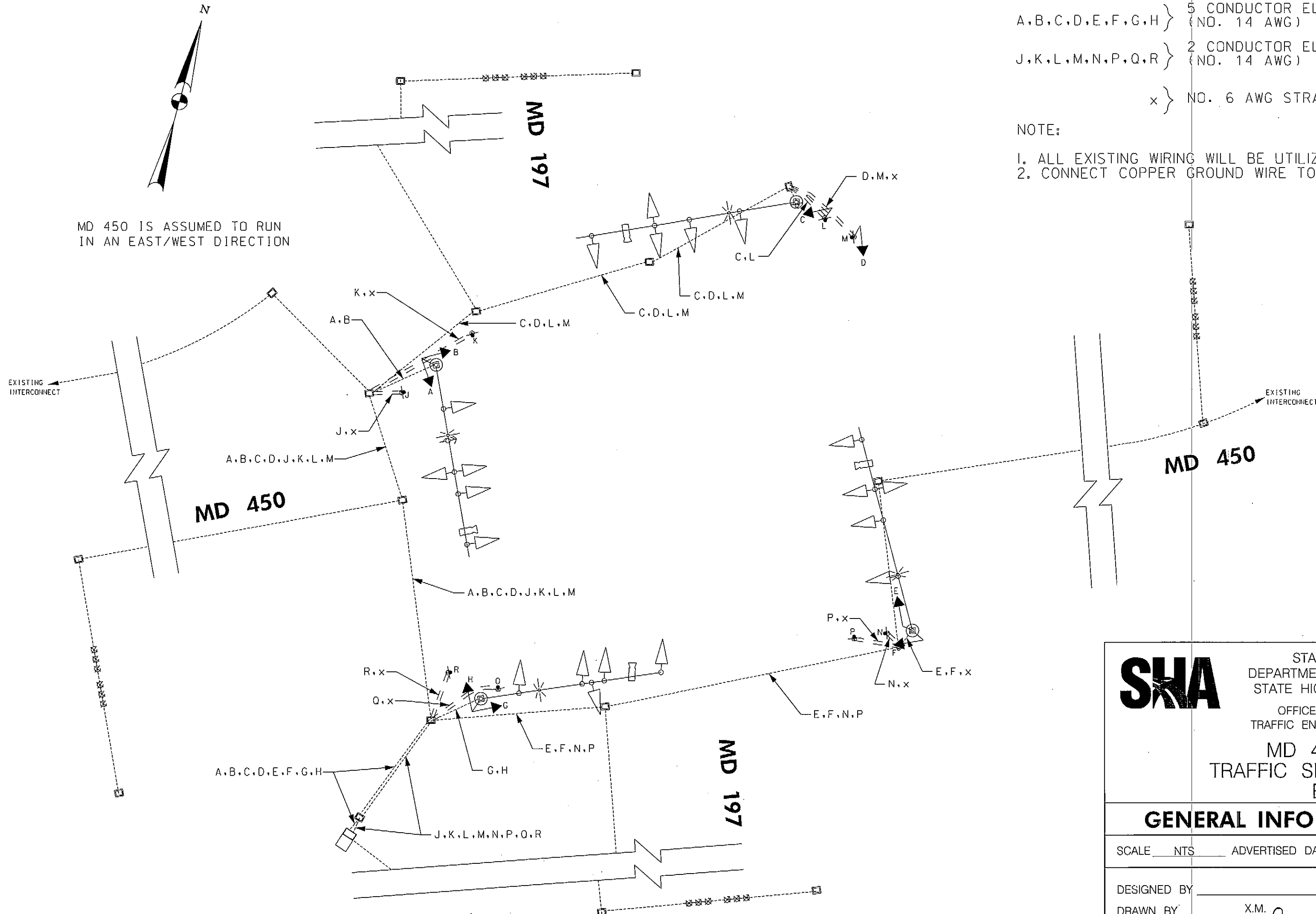
Mr. Sonny Bailey  
Supervisor, Sign Shop  
Phone: 410-787-7676

Mr. Mike Stocker  
Supervisor, Signal Warehouse  
Phone: 410-787-7668

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
PHASE 1 AND 5	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G-	G-	G-	G	G	G-	G-	G-	G	G	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	WK	DW	WK	WK	WK
PED CLEAR	G-	G-	G-	G	G	G-	G-	G-	G	G	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	FLDW	DW	FLDW	FLDW	FLDW
2 AND 6 CHANGE	G-	G-	G-	Y	Y	G-	G-	G-	Y	Y	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 7 CHANGE	G-	G-	G-	R	R	G-	G-	G-	R	R	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	G	G	G-	G-	G-	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	Y	Y	G-	G-	G-	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 ALT	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	G	G	G-	G-	G-	G	G	WK	WK	WK	DW	WK	DW	DW	DW
PED CLEAR	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	G	G	G-	G-	G-	G	G	FLDW	FLDW	FLDW	DW	FLDW	DW	DW	DW
4 AND 8 CHANGE	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	Y	Y	G-	G-	G-	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	G-	G-	G-	R	R	DW	DW	DW	D	DW	DW	DW	DW
PRE-EMPT CHANGE	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	Y-	Y-	Y-	R	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A, B, C, D, E, F, G, H } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)  
J, K, L, M, N, P, Q, R } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)  
x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

NOTE:

1. ALL EXISTING WIRING WILL BE UTILIZED.  
2. CONNECT COPPER GROUND WIRE TO NEAREST EXISTING GROUND ROD.

TOD No: XX427-13  
SHA No: PG756A53/B53  
MD 450 @ MD 197

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 AT MD 197  
TRAFFIC SIGNAL MODIFICATION  
BOWIE, MD

GENERAL INFORMATION PLAN SHEET

SCALE: NTS ADVERTISED DATE: 05/2010 CONTRACT NO: XX4275185

DESIGNED BY: COUNTY: PRINCE GEORGE'S  
DRAWN BY: X.M. LOGMILE: 16045011.360  
CHECKED BY: J.B. TIMS NO: J733  
F.A.P. NO: TOD NO:

TS NO. 4396A DRAWING - OF SHEET NO. 3 OF 3

BAI BRUDIS & ASSOCIATES, INC.  
Consulting Engineers  
9220 Rumsey Road, Suite 110  
Columbia, Maryland 21045  
Phone: 410-844-3607  
www.brudis.com

PLOTTED: \*\*\*\*\* 28, 2010 AT 03:25 \*\*\*\*\*  
FILE: P:\09-002 TEDD\Task 31 MD 450 @ MD 197\Drawings\CADD\Working\PG-P000\_MD450@MD197.dgn